

Amendments to the Specification:

Attached is a Substitute Specification. It is requested that it be substituted for the originally filed specification.

The undersigned, who is admitted to practice before the U.S. Patent and Trademark Office, verifies that the Substitute Specification contains no new matter.

Also attached is a Comparison Copy, which shows the changes made to the originally filed specification and incorporated in the Substitute Specification.

Amendments to the Abstract:

Please substitute the following version of the Abstract, with changes shown by strikethrough (for deletions) or underlining (for added matter).

ABSTRACT OF THE DISCLOSURE

~~With the A~~ measuring device for determining movements ~~are determined~~ on a weaving machine (1). ~~With this measuring device (2)~~ by producing digital signals ~~can be produced~~ at discrete points in time occurring in a periodic sequence by means of a positional determination of one or more identifiable points (31) ~~which are located~~ on a moved moving surface (30) and within a ~~two dimensional~~ two-dimensional measuring window (3) ~~of the measuring device~~. These signals ~~can be evaluated for determining an interval which can be associated with changes in position of the identifiable positions~~. Optical and electronic components (21, 22, 23, 20) for effecting pattern recognition are integrated in the measuring device. The identifiable positions ~~can be~~ are defined by the pattern recognition. The positions of at least some of these positions ~~can be~~ are determined at two sequential points in time of the ~~said~~ sequence. The interval associated with the changes in position ~~can be~~ is calculated at each of the discrete points in time. ~~Thus to determine~~ the length of a path (L) travelled by the moved surface and ~~also its speed (v, V) can be determined at these points in time~~.

(Fig. 2)